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PANASONIC CT-27SX10 OPERATING INSTRUCTIONS MANUAL

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Panasonic®

Color Television
Operating Instructions

CT-20SX10	CT-27SX10	CT-F2510X
CT-24SX10	CT-F2110X	CT-F2910X

For assistance, please call: 1-800-211-PANA (7262) or
send e-mail to: consumerproducts@panasonic.com

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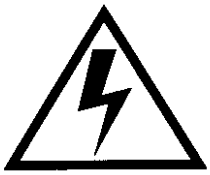

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

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Read these instructions completely before operating TV.

Contents are subject to change without notice or obligation.

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Congratulations

Your new Panasonic Tau television is designed to provide state-of-the-art picture quality and features an innovative PureFlat™ picture tube. The new silver-gray cabinet with compact, elegant styling is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product are located on the back of the TV. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss. Product registraton for U.S. customers is available at: **www.prodreg.com/panasonic**.

Model Number

Serial Number

Care and Cleaning

Screen (Turn TV Off)

- ❒ Use a mild soap solution or window cleaner with a soft, clean cloth. DO NOT USE ABRASIVE CLEANERS.
- ❒ Avoid excessive moisture and wipe dry.

Note: *Do not spray any type of cleaning fluid directly on the screen.*

Cabinet and Remote Control

- ❒ For cabinets and remote control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- ❒ Do not use benzene, thinner or other petroleum based products.

Specifications

Power Source **CT-20SX10 (1.7A)** **CT-24SX10 (2.2A)** **CT-27SX10 (2.3A)**	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-125
Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
Audio Input Jacks	500mV RMS 47K Ohm
Component Input ($Y / P_B / P_R$)	75 Ohm, Phono Jack Type
S-Video Input Jacks	S-Video (Y-C) Connector

Specifications are subject to change without notice or obligation.

Installation

Television Location

This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options.

- ❒ Avoid excessive sunlight or bright lights, including reflections.
- ❒ Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
- ❒ Fluorescent lighting may reduce remote control transmitting range.
- ❒ Keep away from magnetic equipment, including motors, fans and external speakers.

CAUTION: Use this television receiver only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. In order to avoid injury to children, never place your television receiver on a piece of furniture that is capable of being tilted by a child leaning on it, pulling on it, standing on it, or climbing on it.

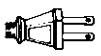
Optional Cable Connections

Shielded audio and video cables should be used between components. For best results:

- ❒ Use 75-ohm coaxial shielded cables.
- ❒ Use appropriate input and output connectors, that match your component connectors.
- ❒ Avoid long cables to minimize interference.

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE A PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



Polarized plug

PROTECT POWER CORDS FROM BEING WALKED ON, ROLLED OVER, CRIMPED, BENT OR PINCHED, PARTICULARLY AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.

Cable / Antenna Connection

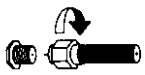
For proper reception, either a cable or antenna connection is required.

Cable Connection

Connect the cable supplied by your local cable company.

Note: *A cable converter box may be required for proper reception. Check with your local cable company for compatibility requirements.*

Incoming Cable from Cable Company

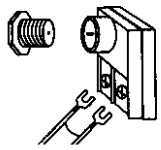


75 Ohm VHF/UHF on back of TV

Antenna Connections

- ❒ For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended.
- ❒ Antenna Mode must be set to TV.

Incoming Cable from Home Antenna



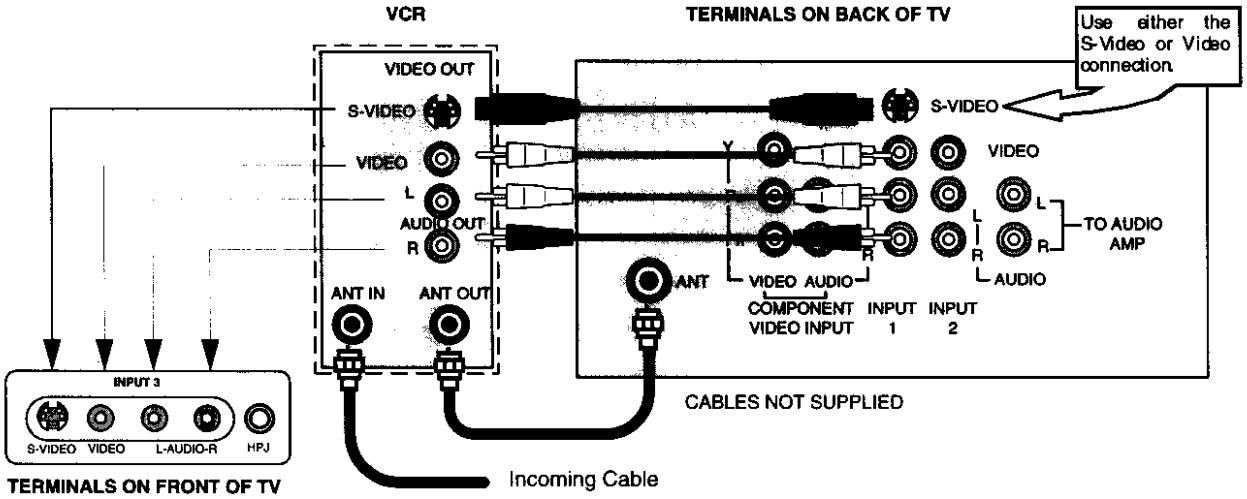
Cable Preset

Cable Mode is preset at the factory. Antenna users must change to TV mode in the SETUP menu.

Optional Equipment Connections

VCR Connection

VCRs, video disc players, video game equipment, and DSS equipment can also be connected to the video inputs. See the optional equipment manual for more information.



Procedure

1. Connect equipment as shown to front or rear Audio/Video input jacks.
2. Select the Video mode by pressing **TV/VIDEO** button.
3. Operate optional equipment as instructed in equipment manual.

Push to open the front panel of the television to use the Audio/Video input jacks for optional equipment. Press the **TV/VIDEO** button to select VIDEO 3 input mode.

Note: *The S-VIDEO connection provides higher quality picture. It overrides other VIDEO connections. Use INPUT 3, AUDIO L and R with S-VIDEO connection.*

IMPORTANT INFORMATION REGARDING USE OF VIDEO GAMES, COMPUTERS, DSS OR OTHER FIXED IMAGE DISPLAYS.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

A. Reduce the brightness/contrast setting to a minimum viewing level.

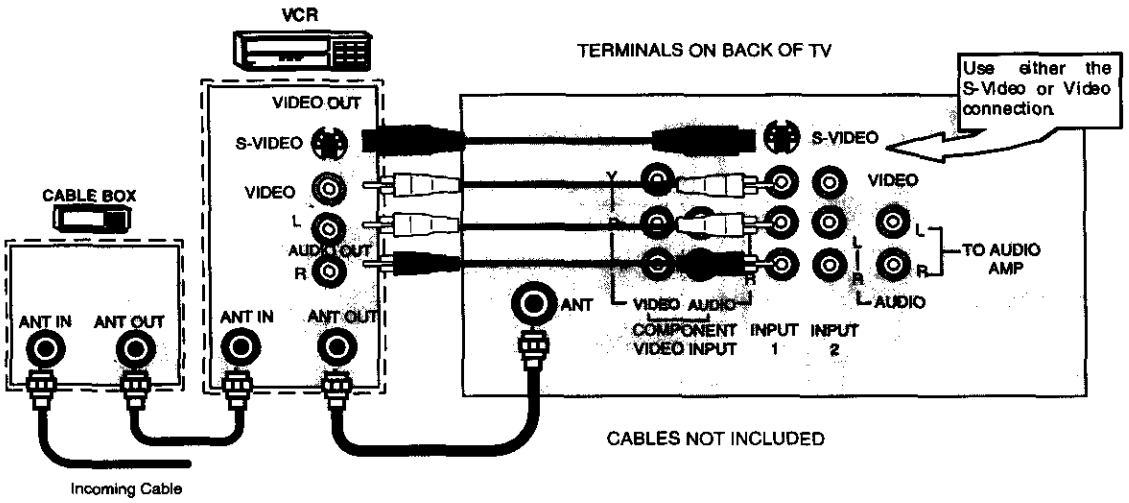
B. Do not display the fixed image for extended periods of time.

C. Turn the power off when not in actual use.

Note: *The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.*

VCR and Cable Box Connection

Follow this diagram when connecting your television to both a VCR and a cable box.



Note: *The remote control must be programmed with supplied codes to operate the VCR and cable box. See Programming the Remote Control in the* ***Remote Control Quick Reference Guide.***

Viewing a premium (scrambled) cable channel

Procedure

1. Tune the television to CH 3 or 4 depending on the Cable box RF out.
2. Using the cable box, tune to the premium cable channel you want to view.

Viewing a premium (scrambled) cable channel using the A/V input jacks

1. Press the **TV/VIDEO** button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
2. Turn the VCR ON.
3. Tune the VCR to Channel 3 or 4, depending on the switch setting on the back of VCR.
4. Using your cable box, tune to the premium cable channel you want to view.

Amplifier Connection (To Audio Amp)

Connect to an external audio amplifier input for listening through a stereo system.

Note: *TO AUDIO AMP terminals cannot be connected directly to external speakers.*

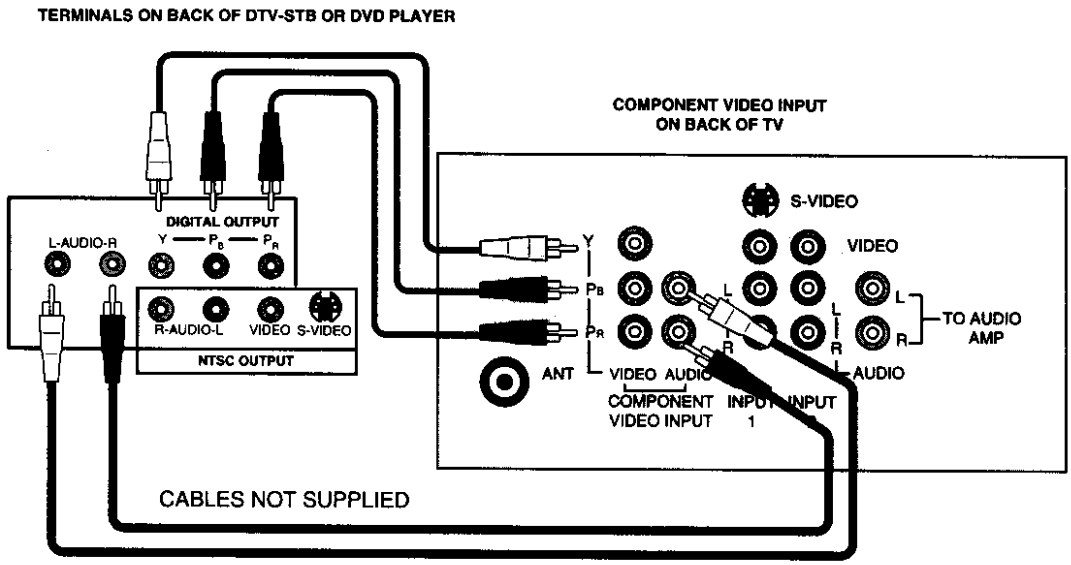
Audio Adjustments

1. Select TV SPEAKERS ON from AUDIO menu.
2. Set amplifier volume to minimum.
3. Adjust TV volume to desired level.
4. Adjust amplifier volume to match the TV.
5. Select TV SPEAKERS OFF&VAO from AUDIO menu.
6. Volume, mute, bass, treble and balance are now controlled from the TV.

Note: *In OFF&FAO the volume is controlled by the external amplifier.*

Digital TV - Set-Top Box (DTV-STB) or DVD Connection

Use this diagram to connect the Panasonic DTV-STB (Digital TV-Set-Top Box) or a DVD player to the back of your TV.

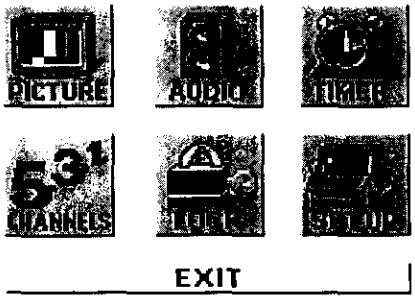


Notes:

- There are three video inputs, Y, P_B, and P_R. Separate component color inputs provide luminance and color separation. Use the L (left) and R (right) audio inputs.
- Select DTV-STB to **480i** output mode. TV set can receive **480i** signal only.

Main Menu

Main Menu

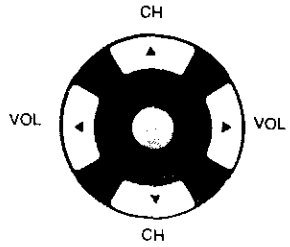


Procedures

1. Press the **ACTION** button on the remote control to display Main Menu.
2. Press the **CH ▲▼** or **VOL ◀▶** button to highlight the desired icon.
3. Press the **ACTION** button to display icon features and submenus.
4. Press the **CH ▲▼** buttons to select desired icon features.
5. Press the **VOL ▶** button to highlight submenus.
6. Press the **CH ▲▼** to select desired submenu.
7. Press the **VOL ◀▶** button to select or adjust submenu.
8. Press the **ACTION** button repeatedly to exit menus.

Remote Control Buttons

Remote ACTION / Navigation Button



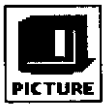
Remote Control Guide

The **Remote Control Quick Reference Guide** is located within the package provided with this TV.

Main Menu Feature Chart

MENU	DESCRIPTION
	SET UP
IDIOMA/LANGUE (Languages)	❒ Select English, Spanish, or French menu.
PROG. CHAN (Program Channels)	❒ MODE - Select Cable or TV. See Installation section in manual. ❒ AUTO PROGRAM - Automatically program channels having a signal into memory. ❒ MANUAL PROGRAM - Manually add or delete channels from memory.
CC (Closed Captioning)	❒ CC ON MUTE - Activate C1-C2 for Closed Captioning display when the remote MUTE button is pressed. ❒ CC MODE - Select C1 or C2 for Closed Captioning, program guides and other information.
OTHER ADJ.	❒ AUTO POWER ON - Select SET to power up the TV at the same time as the Cable Box or other components or select OFF. ❒ GEOMAGNETIC CORR - Special adjustment option that compensates for the earth's geomagnetic field. Adjustment may be required for geomagnetic fields in the area. (CT-27SX10 or CT-F2910X only.)
	AUDIO
AUDIO ADJ. (Adjustments)	❒ MODE - Select STEREO, SAP (Second Audio Program) or MONO. (Use MONO when stereo signal is weak.) ❒ BASS - Increase or decrease the bass response. ❒ TREBLE - Increase or decrease the treble response. ❒ BALANCE - Emphasize the left/right speaker volume. ❒ NORMAL - Reset BASS, TREBLE and BALANCE to factory default.
OTHER ADJ. (Adjustments)	❒ AI SOUND - Automatically adjust volume to maintain a comfortable listening level. (AI sound is not available in VIDEO mode).
SURROUND	❒ SURROUND - Enhances audio response when listening to stereo.
SPEAKERS	❒ ON - TV speakers operate normally. ❒ OFF & VARIABLE AUDIO OUT - TV speakers off - audio adjustable by TV. ❒ OFF & FIXED AUDIO OUT- TV speakers off - audio adjustable only by the external amplifier.

Main Menu Feature Chart (Cont.)

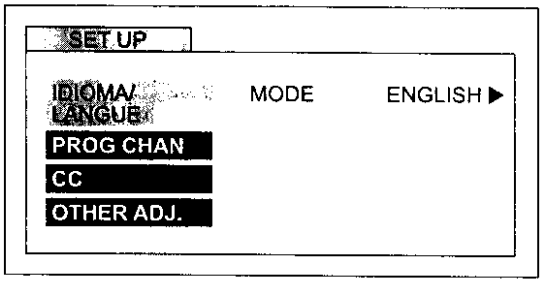
MENU	DESCRIPTION
	TIMER
CLOCK SET	❒ Set the time and the day of the week. (Time will display onscreen after turning on the television, pressing the RECALL button or changing channels).
SLEEP	❒ Set timer to turn off TV in 30, 60 or 90 minutes. Select NO to turn timer off.
TIMER 1 **TIMER 2**	❒ Set one or both timers to automatically turn television on and off at selected times, on selected channels, and on selected days. (Clock must be set to use Timer features).
	**PICTURE**
VIDEO ADJ. (Adjustments)	❒ COLOR - Adjust desired color intensity. ❒ TINT - Adjust natural flesh tones. ❒ BRIGHTNESS - Adjust dark areas for crisp detail. ❒ PICTURE - Adjust white areas of picture. ❒ SHARPNESS - Adjust clarity of outline detail. ❒ NORMAL- Reset all picture adjustments to factory default settings.
OTHER ADJ. (Adjustments)	❒ COLOR TEMP - Adjust white balance to COOL (blue), WARM (red) or NORMAL.
	CHANNELS
FAVORITES	❒ CHANNEL SCAN - Select FAV (16 favorites) or ALL channels to scan channels using the up/down CH buttons.
CAPTION	❒ MANUAL CAPTION - Enter channel numbers and captions manually. ❒ INPUT LABEL - Label video connections for onscreen display of optional equipment.
	LOCK
MODE	❒ LOCK SET - Lock All Channels, Selected channels and Video or Game with a secret code. ***Note:*** *For more information about Block Programs, see the V-CHIP Parental Lock manual provided with the TV package.*
HOW LONG?	❒ Select the period of time (12, 24, 48 hours or ALWAYS) for your option to be locked.

Special Features

SET UP

Menu Languages

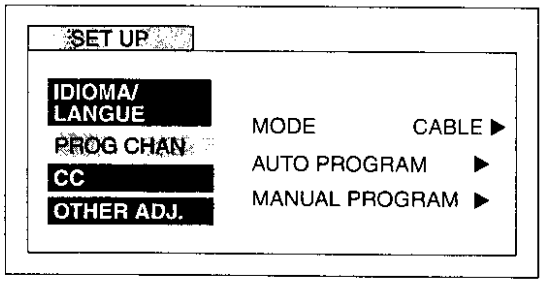
In SET UP Menu, select IDIOMA / LANGUE to change menu language to ENGLISH, ESPAÑOL (Spanish), or FRANÇAIS (French).



Prog Chan (Program Channels)

In SET UP menu under PROG CHAN select:

- ❒ MODE to select TV (antenna) or CABLE mode depending on the signal source.
- ❒ AUTO PROGRAM to automatically program all channels with a signal.
- ❒ MANUAL PROGRAM to manually add or delete channels.



CC (Closed Captioning)

This television contains a built-in decoder that displays CC (Closed Captioned) text across the screen (white or colored letters on black background). It allows the viewer to read the dialogue of a television program or other information. The program viewed must include Closed Captioning for the feature to work.

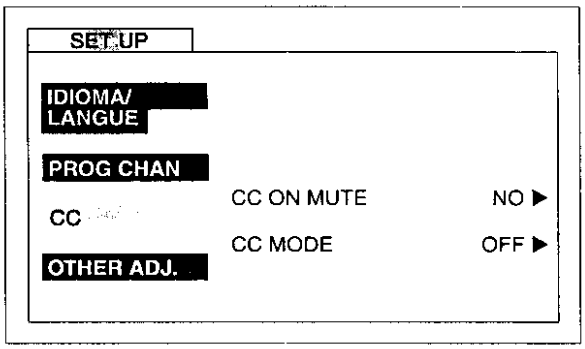
CC On Mute

Activates the onscreen Closed Caption feature when the **MUTE** button on the remote control is pressed.

Note: *This feature only functions when the Closed Caption Mode is OFF. The program being viewed must be broadcast with Closed Captioning. (Refer to your local TV guide).*

Procedure

- ❒ In SET UP Menu, select CC (Closed Caption).
- ❒ Select CC ON MUTE
- ❒ Select NO, C1 or C2.
- ❒ Recommended set up for Closed Caption when using the **MUTE** button:
  - CC ON MUTE: C1
  - CC MODE: OFF
- ❒ Press the **ACTION** button to return to submenu options, and exit menus.
- ❒ Press the **MUTE** button to activate the Closed Caption feature.
- ❒ Press the **MUTE** button again to deactivate the feature.



CC Mode

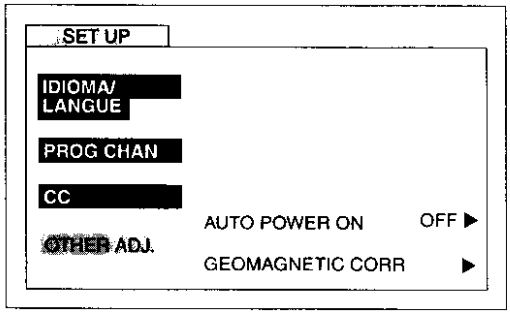
Procedure

- ❒ In SET UP Menu, select CC (Closed Caption).
- ❒ Select CC MODE.
- ❒ Select OFF, C1 or C2:
  - OFF - When Closed Caption is not desired.
  - C1 - For video related information to be displayed, up to 4 lines onscreen at a time. (It does not block relevant parts of the picture). Text may be in any language.
  - C2 - For another mode of video related information.
- ❒ Press the **ACTION** button to return to submenu options, and exit menus.

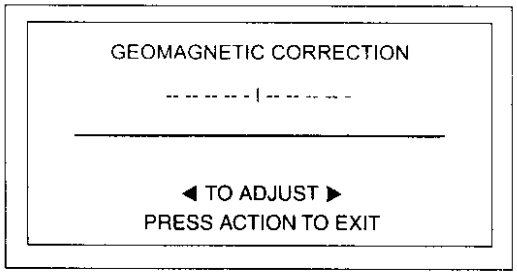
Other Adjustments

In SETUP Menu under OTHER ADJ. select:

- ❒ AUTO POWER ON - Select SET to power up the TV at the same time as the Cable box or other components or select OFF.
- ❒ GEOMAGNETIC CORR (CORRECTION) - Adjusts the tilt of the picture due to earth's magnetic field in the area. (For Models CT-27SX10 or CT-F2910X only.)



GEOMAGNETIC CORRECTION MENU
(FOR MODELS CT-27SX10 OR CT-F2910X ONLY)



Note: *Geomagnetic Correction may be required at Set Up time or when the TV set is moved to a different location.*

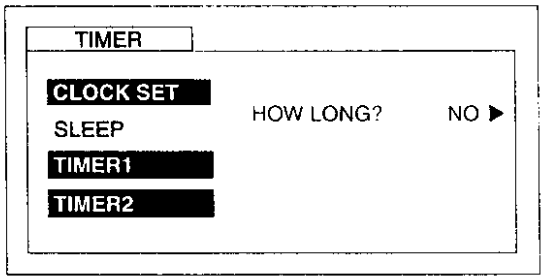
Procedure

- ❒ In SET UP Menu, under OTHER ADJ. select GEOMAGNETIC CORR. (CORRECTION).
- ❒ Press ▶ button to display the GEOMAGNETIC CORRECTION sub-menu.
- ❒ Press ◀ or ▶ button to adjust the tilt adjustment bar until it is parallel to the bottom of the picture frame.

TIMER

Sleep

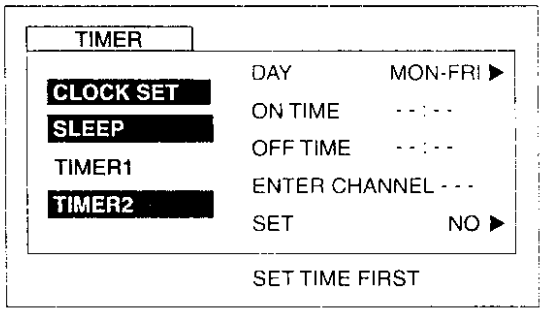
In TIMER menu, select SLEEP to turn TV off in 30, 60 or 90 minutes. Select NO to turn off timer.

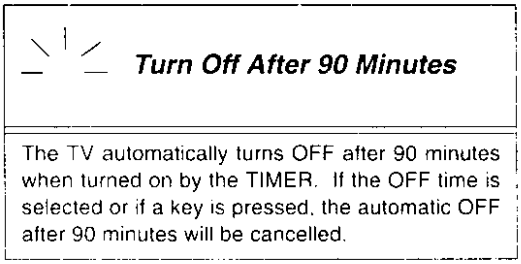


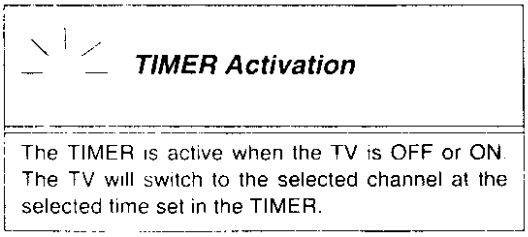
Timer 1 and Timer 2

In TIMER menu, select one or both timers to turn the television on and off at selected times, on selected channels, and on selected days.

Note: *TIME must be entered in CLOCK SET to operate TIMER features.*




Turn Off After 90 Minutes
The TV automatically turns OFF after 90 minutes when turned on by the TIMER. If the OFF time is selected or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.

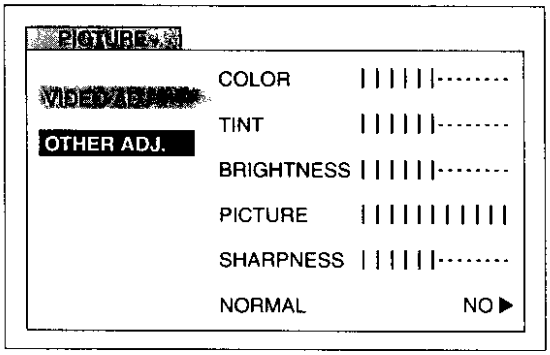

TIMER Activation
The TIMER is active when the TV is OFF or ON. The TV will switch to the selected channel at the selected time set in the TIMER.

PICTURE

Video Adjustments

In Picture menu under VIDEO ADJ. select:

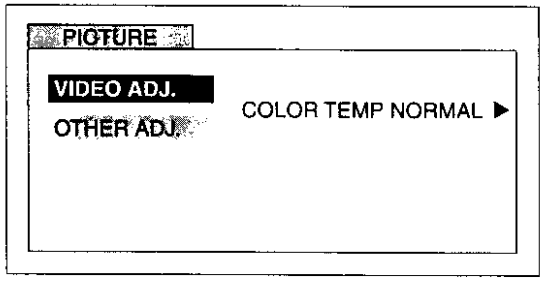
- ❒ COLOR - Adjusts desired color intensity.
- ❒ TINT - Adjusts natural flesh tones.
- ❒ BRIGHTNESS - Adjusts dark areas of picture.
- ❒ PICTURE - Adjusts white areas of picture.
- ❒ SHARPNESS - Adjusts clarity of outline detail.
- ❒ NORMAL - Reset all picture adjustments to factory default settings.



Other Adjustments

In Picture menu under OTHER ADJ. select:

- ❒ COLOR TEMP to increase and decrease WARM (red) and COOL (blue) colors to suit personal preferences.

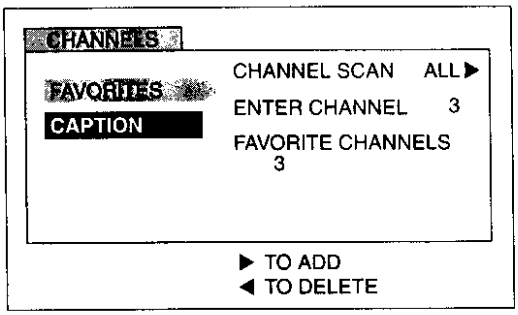


CHANNELS

Favorites

In CHANNELS menu under FAVORITES select:

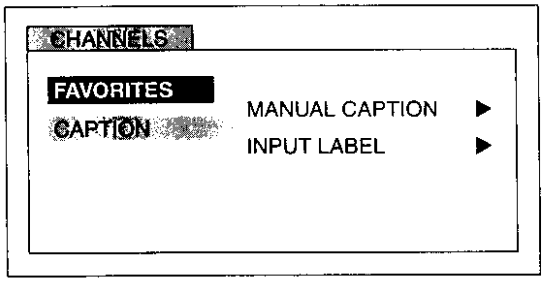
- CHANNEL SCAN FAV to enter up to 16 favorite channels.
- CHANNEL SCAN ALL to scan all channels when using the CH up/down buttons.



Caption

In CHANNELS menu under CAPTION select:

- MANUAL CAPTION to enter numbers and captions manually.
- INPUT LABEL to label video input connections for onscreen display.



LOCK

MODE

To use LOCK options:

- ENTER CODE FIRST - Use the numeric keypad to enter a four-digit secret code. After entering your secret code for the first time, the onscreen display will change to CHANGE CODE.

  Note: *Use a code that is easy to remember or record it in a safe place.*

In MODE submenu select:

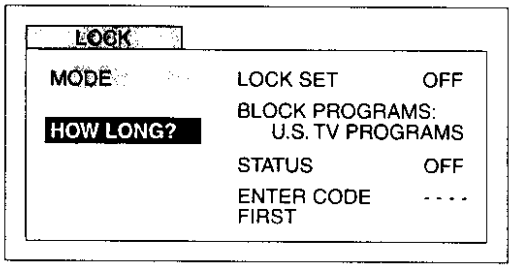
- LOCK SET to choose:
  - OFF - To turn lock function off.
  - ALL - To lock all channels and video inputs.
  - CHANNEL - To lock up to four channels of your choice.
  - GAME - To lock channels 3, 4 and video inputs.
- BLOCK PROGRAMS* - To use Block Programs Ratings.
- CHANGE CODE - Use numeric keypad to change your four-digit secret code.

  Note: *If in CHANGE CODE you enter a different code from the one used previously, the new code becomes the controlling code.*

Press the **ACTION** button to return to submenu, then select HOW LONG to choose the period of time you want your option to be locked (12, 24, 48 hours or ALWAYS).

Note: *Be cautious when selecting ALWAYS. If ALWAYS is selected, and you forget your secret code, the television must be serviced by a qualified technician in order to clear the LOCK setup.*

Press the **ACTION** button to return to submenu, and to exit menus.



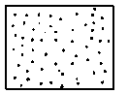
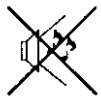
Note: *If GAME, CHANNEL or ALL is selected, and if a blocked channel or video input is selected, the message PG (Parent Guard) displays in the upper right corner of the television screen*

Unlock LOCK SET by reentering the same four-digit secret code and selecting OFF.

***For more information about Block Programs, see the V-CHIP Parental Lock manual provided with the TV package.**

Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

AUDIO	VIDEO	Solutions
Noisy Audio	Snowy Video	Adjust Antenna Location and Connection
Noisy Audio	Multiple Image	Adjust Antenna Location and Connection Check Antenna Lead-in Wire
Noisy Audio	Interference	Move TV from Electrical Appliances, Lights, Vehicles, and Medical Equipment
No Audio	Normal Video	Increase Volume Check Mute Check TV SPEAKERS on/off Change Channel
Noisy Audio	 No Video with Snow	Set TV or Cable Mode Properly Check Antenna Cables
No Audio	No Video	Check Power Cord is Plugged into Active Outlet Adjust Brightness and Audio Controls Change Channel Check Cable Connections Program the Remote Control Again
Normal Audio	No Color	Adjust Color Settings Change Channel
 Wrong Audio	Normal Video	Check Audio Is Set To Stereo Or Mono, Not SAP
Normal Audio	Black Box on Screen	Change CC (Closed Captioning) from Text Mode
Normal Audio	Normal Video	Replace Remote Control Batteries
Intermittent Remote Control Operation		

NOTES

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